COLLOIDS AND SURFACES
A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS

VOL. 131 **1 JANUARY 1998**

CONTENTS

(Abstracted/indexed in: Chemical Abstracts; Current Contents; Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

Solubility of nitric oxide (NO) in lipid aggregates as monitored by nuclear magnetic resonance
N. Marchettini (Siena, Italy), M. Rustici, M. Branca, N. Culeddu, M. Fruianu, M.V. Serra (Sassari, Italy) and E. Tiezzi (Siena, Italy) 1

Dissociation constants of lipid ionizable groups. I. Corrected values for two anionic lipids
E.M. Egorova (Moscow, Russia) 7

Dissociation constants of lipid ionizable groups. II. Changes in surface pK at low ionic strengths
E.M. Egorova (Moscow, Russia) 19

Ion-exchange selectivities of tin(IV) and iron(III) antimonates for lithium and potassium ions
E.S. Zakaria and I.M. El-Naggar (Cairo, Egypt) 33

Adsorption of some normal aliphatic alcohols on a polycrystalline gold electrode
M. Brzostowska-Smolska and P. Krysiński (Warsaw, Poland) 39

Partitioning of ethoxylated alkylphenol surfactants in microemulsion–oil–water systems. Part II: influence of hydrophobe branching
N. Márquez (Maracaibo, Venezuela), R.E. Antón (Mérida, Venezuela), A. Graciaa, J. Lachaise (Pau, France) and J.-L. Salager (Mérida, Venezuela) 45

Interaction theory for double electric layers of dissimilar particles for equilibrium regime of surface ionization: Low surface potentials
Y.V. Shulepov (Kiev, Ukraine), L.K. Koopal, J. Lyklema (Wageningen, The Netherlands) and S.S. Dukhin (Kiev, Ukraine) 51

Stability of TiO_2 hydrosols synthesized by hydrolysis of titanium tetraethoxide
E. Ghenne, F. Dumont and C. Buess-Herman (Bruxelles, Belgium) 63

The viscosity of a dilute suspension of sodium montmorillonite in an alkaline state
K. Miyahara, Y. Adachi and K. Nakaishi (Ibaraki, Japan) 69

Interactions between dissimilar surfaces in high ionic strength solutions as determined by atomic force microscopy
S. Veeramasuneni, M.R. Yalamanchili and J.D. Miller (Salt Lake City, UT, USA) 77

Interaction of 2,4-dinitrophenol and 2,4,6-trinitrophenol with copper, zinc, molybdenum and chromium ferrocyanides
B.B. Tewari, D. Mohan and Kamaluddin (Roorkee, India) 89

Low frequency dielectric dispersion in ethylcellulose latex. Effect of pH and ionic strength
A.V. Delgado, F. González-Caballero, F.J. Arroyo (Granada, Spain), F. Carrique (Málaga, Spain), S.S. Dukhin and I.A. Razilov (Kiev, Ukraine) 95

Ultrafiltration of very dilute colloidal mixtures
S.S. Madaeni (Kermanshah, Iran) 109

Structure and stability of colloidal liquid aphrons
G.J. Lye and D.C. Stuckey (London, UK) 119

Measurements of structural and electrostatic parameters and surface tension of micelles of an ionic surfactant versus concentration, ionic strength of solution and temperature by small-angle neutron scattering
L.A. Bulavin (Kiev, Ukraine), V.M. Garamus (Kiev, Ukraine/Moscow, Russia), T.V. Karmazina and E.N. Pivnenko (Kiev, Ukraine) 137

The adsorption of starch derivatives onto kaolin
J.C. Husband (Cornwall, UK) 145

Preparation by sol–gel method of SiO_2 and mullite ($3Al_2O_2$, $2SiO_2$) powders and study of their surface characteristics by inverse gas chromatography and zetametry
C.-W. Won (Taejon, South Korea) and B. Siffert (Mulhouse, France) 161

Preparation and properties of nanosized PdS dispersions for electrolytic plating
M. Schultz (Kaiserslautern, Germany) and E. Matijević (Potsdam, NY, USA) 173

Low temperature rheological behavior of Umbarka waxy crude and influence of flow improver
I.M. El-Gamal and E.A.M. Gad (Cairo, Egypt) 181

Aggregate formation in colloidal dispersions
W. Liang and K. Kendall (Keele, Staffs., UK) 193

A study of the interactions between cationic polymers and colloidal silicic acid

0927-7757(19980101)131:1-3;1-Q

(continued from back cover)

C. Walldal, S. Wall and D. Biddle (Göteborg, Sweden) 203

Molecular adhesion interactions between Langmuir monolayers and solid substrates
K. Graf (Mainz, Germany) and H. Riegler (Berlin, Germany) 215

Characterisation of the initial period of protein adsorption by dynamic surface tension measurements using different drop techniques
R. Miller (Berlin-Adlershof, Germany), V.B. Fainerman (Donetsk, Ukraine), R. Wüstneck, J. Krägel (Berlin-Adlershof, Germany) and D.V. Trukhin (Donetsk, Ukraine) 225

A study of captive bubbles with axisymmetric drop shape analysis
R.M. Prokop, A. Jyoti, M. Eslamian, A. Garg, M. Mihaila, O.I. del Río, S.S. Susnar, Z. Policova and A.W. Neumann (Toronto, ON, Canada) 231

Stability of dialkyldimethylammonium bromides monolayers spread at the water/air interface
P. Dynarowicz (Kraków, Poland), N.V. Romeu and J.M. Trillo (Santiago de Compostela, Spain) 249

Dynamics of bilayer membranes. Part 2. Connection with normal fluids
R. Wang (Beijing, People's Republic of China) 257

The three-phase contact parameters of thin water films on mineral surfaces
L. Alexandrova and L. Grigorov (Sofia, Bulgaria) 265

The surface chemistry of hybrid nanometer-sized particles. I. Photochemical deposition of gold on ultrafine TiO_2 particles
C.-y. Wang, C.-y. Liu, X. Zheng, J. Chen and T. Shen (Beijing, People's Republic of China) 271

Polyelectrolytic nature of humic substances–aluminum ion complexes. Interfacial characteristics and effects on colloid stability
F. Elfarissi, L. Nabzar (Agadir, Morocco), E. Ringenbach (Strasbourg, France) and E. Pefferkorn (Agadir, Morocco) 281

Kinetics of air/vesicle-suspension/quartz three-phase contact
L. Alexandrova and R. Tsekov (Sofia, Bulgaria) 295

The influence of salicylate counterions on the aggregation behaviour of a polymerizable cationic surfactant
G. Tuin, F. Candau and R. Zana (Strasbourg, France) 303

The adsorption of amino acids from aqueous solutions. Surface and interfacial behaviour of tyrosine and serine
M. Jurkiewicz-Herbich, A. Muszalska and R. Słojkowska (Warsaw, Poland) 315

Monolayers of an amphiphilic crown-ether styryl dye
S.Y. Zaitsev, S.P. Gromov, O.A. Fedorova, E.A. Baryshnikova, V.P. Vereschetin (Moscow, Russia), W. Zeiss, H. Huesmann (Göttingen, Germany), M.V. Alfimov (Moscow, Russia) and D. Möbius (Göttingen, Germany) 325

Author Index 333

Subject Index 335

The table of contents of *Colloids and Surfaces A: Physicochemical and Engineering Aspects* is included in ESTOC – Elsevier Science Tables of Contents service – which can be accessed on the World Wide Web at the following URL addresses: http://www.elsevier.nl/locate/estoc or http://www.elsevier.com/locate/estoc